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## International Researcher IDs

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## Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Astronomi Ve Uzay Bilimleri (Dr), Turkey 2020 - Continues

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Astronomi Ve Uzay Bilimleri (YI) (Tezli), Turkey 2016 - 2020

Undergraduate, Ankara University, Fen Fakültesi, Astronomi ve Uzay Bilimleri Bölümü, Turkey 2009 - 2016

## Foreign Languages

English, C1 Advanced

## Research Areas

Astronomy and Astrophysics

## Academic Titles / Tasks

Research Assistant, Ankara University, Fen Fakültesi, Astronomi ve Uzay Bilimleri Bölümü, 2021 - Continues

## Published journal articles indexed by SCI, SSCI, and AHCI

- OrCAS: Origins, Compositions, and Atmospheres of Sub-Neptunes. I. Survey Definition**  
Crossfield I. J. M., Polanski A. S., Robertson P., Murphy J. A., Turtelboom E. V., Luque R., Beatty T., Daylan T., Isaacson H., Brande J., et al.  
Astronomical Journal, vol.169, no.2, 2025 (SCI-Expanded)
- Absolute dimensions of solar-type eclipsing binaries NY Hya: A test for magnetic stellar evolution models**  
Hinse T., BAŞTÜRK Ö., Southworth J., Feiden G., Tregloan-Reed J., Kostov V., Livingston J., ESMER E. M., YILMAZ M.,

YALÇINKAYA S., et al.

Astronomy and Astrophysics, vol.687, 2024 (SCI-Expanded)

- III. **Looking for timing variations in the transits of 16 exoplanets**  
Yalçinkaya S., ESMER E. M., BAŞTÜRK Ö., Muhaymin A., Kutluay A., Silistre D., Akar F., Southworth J., Mancini L., Davoudi F., et al.  
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.530, no.3, pp.2475-2495, 2024 (SCI-Expanded)
- IV. **Eclipse timing variations of evolved eclipsing binaries: potential targets for meter-sized telescopes in the light of TESS observations**  
Esmer E. M., Baştürk Ö., Selam S. O., Akar F., Sertkan E., Güler B., Yalçinkaya S.  
CONTRIBUTIONS OF THE ASTRONOMICAL OBSERVATORY SKALNATE PLESO, vol.54, no.2, pp.228-233, 2024 (SCI-Expanded)
- V. **Transit timing variation analysis of the low-mass brown dwarf KELT-1 b**  
BAŞTÜRK Ö., Southworth J., YALÇINKAYA S., Mancini L., ESMER E. M., Tekin M., Tezcan F., Evans D. F., Tezcan C. T., Bruni I., et al.  
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.521, no.1, pp.1200-1209, 2023 (SCI-Expanded)
- VI. **Homogeneous transit timing analyses of 10 exoplanet systems**  
BAŞTÜRK Ö., ESMER E. M., YALÇINKAYA S., Torun L., Mancini L., Helweh F., Karamanli E., Southworth J., ALİŞ S., Wunsche A., et al.  
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.512, no.2, pp.2062-2081, 2022 (SCI-Expanded)
- VII. **The ultra-hot-Jupiter KELT-16 b: dynamical evolution and atmospheric properties**  
Mancini L., Southworth J., Naponiello L., BAŞTÜRK Ö., Barbato D., Biagiotti F., Bruni I., Cabona L., D'Ago G., Damasso M., et al.  
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.509, no.1, pp.1447-1464, 2022 (SCI-Expanded)
- VIII. **RR Draconis: An Algol-Type Eclipsing Binary with a Possible Massive Tertiary Companion**  
Senavci H. V., Ceki A., Esmer E. M., Yalcinkaya S., Latkovic O., Bahar E., Yilmaz M., Basturk Ö., Ozavci İ., Yorukoglu O., et al.  
ACTA ASTRONOMICA, vol.72, no.1, pp.31-53, 2022 (SCI-Expanded)
- IX. **Investigation of Orbital Decay and Global Modeling of the Planet WASP-43 b**  
Davoudi F., BAŞTÜRK Ö., YALÇINKAYA S., ESMER E. M., Safari H.  
ASTRONOMICAL JOURNAL, vol.162, no.5, 2021 (SCI-Expanded)
- X. **Discovery of a young low-mass brown dwarf transiting a fast-rotating F-type star by the Galactic Plane eXoplanet (GPX) survey**  
Benni P., Burdanov A. Y., Krushinsky V. V., Bonfanti A., Hebrard G., Almenara J. M., Dalal S., Demangeon O. D. S., Tsantaki M., Pepper J., et al.  
Monthly Notices of the Royal Astronomical Society, vol.505, no.4, pp.4956-4967, 2021 (SCI-Expanded)
- XI. **Analysis of the Most Precise Light Curves of HAT-P-36**  
YALÇINKAYA S., BAŞTÜRK Ö., El Helweh F., ESMER E. M., Yorukoglu O., YILMAZ M., ŞENAVCI H. V., KILIÇOĞLU T., SELAM S. O.  
ACTA ASTRONOMICA, vol.71, no.3, pp.223-242, 2021 (SCI-Expanded)
- XII. **Transits of Known Planets Orbiting a Naked-eye Star**  
Kane S. R., YALÇINKAYA S., Osborn H. P., Dalba P. A., Nielsen L. D., Vanderburg A., Mocnik T., Hinkel N. R., Ostberg C., ESMER E. M., et al.  
ASTRONOMICAL JOURNAL, vol.160, no.3, 2020 (SCI-Expanded)
- XIII. **A holistic and probabilistic approach to the ground-based and spaceborne data of HAT-P-19 system**  
BAŞTÜRK Ö., YALÇINKAYA S., ESMER E. M., Tanriverdi T., Mancini L., Daylan T., Southworth J., Keten B.  
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.496, no.4, pp.4174-4190, 2020 (SCI-Expanded)
- XIV. **The KELT Follow-up Network and Transit False-positive Catalog: Pre-vetted False Positives for TESS**  
Collins K. A., Collins K., Pepper J., Labadie-Bartz J., Stassun K. G., Gaudi B. S., Bayliss D., Bento J., Colon K. D., Feliz D., et al.  
ASTRONOMICAL JOURNAL, vol.156, no.5, 2018 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Updated Orbital Decay Rate of WASP-12 with New Data from TESS and Ground-based Observations**  
Kutluay A. C., BAŞTÜRK Ö., YALÇINKAYA S., Saguner Rambaldi T., YERLİ S. K.  
Turkish Journal of Astronomy and Astrophysics, vol.4, no.2, pp.10-22, 2023 (Peer-Reviewed Journal)
- II. **Analysis of HAT-P-16b and TrES-3b Exoplanets by the Transit Timing Variations Method**  
Aladağ Y., AKYÜZ A., BAŞTÜRK Ö., AKSAKER N., ESMER E. M., YALÇINKAYA S.  
Turkish Journal of Astronomy and Astrophysics, vol.2, no.1, pp.28-37, 2021 (Peer-Reviewed Journal)
- III. **A LIST OF MINIMA TIMES OF SOME ECLIPSING BINARIES**  
ÖZAVCI İ., BAHAR E., İzci D. D., ÖZUYAR D., Karadeniz O., Yörükoğlu O., Sarıgül H., Göçmen G., Uzunçam E., YALÇINKAYA S., et al.  
Open European Journal On Variable Stars, 2019 (Peer-Reviewed Journal)

## Papers Published in Refereed Scientific Meetings

- I. **ObsMap: Preparing observing maps with the best comparison stars for photometry**  
YALÇINKAYA S., ESMER E. M., BAŞTÜRK Ö.  
Observing techniques, instrumentation and science for metre-class telescopes III, Tatranska Lomnica, Slovakia, 11 September 2023 - 15 March 2024, vol.54, pp.22-28
- II. **SPECULOOS: five years hunting terrestrial planets around ultra-cool dwarfs**  
Zúñiga-Fernández S., Gillon M., Pedersen P. P., Sebastian D., Burdanov A., Demory B., Triaud A. H., de Wit J., Jehin E., Queloz D., et al.  
Ground-Based and Airborne Telescopes X 2024, Yokohama, Japan, 16 - 21 June 2024, vol.13094
- III. **DAG 4 Metre Teleskobuyla Yakın Kızılötede Ötegezegen Atmosferi Gözlemleri**  
YALÇINKAYA S., BAŞTÜRK Ö.  
22. Ulusal Astronomi Kongresi, İzmir, Turkey, 6 - 08 September 2022, vol.4, pp.431-434
- IV. **T80 Prof. Dr. Berahitdin Albayrak Teleskobu ve Odak Düzlemi Aletleri**  
Yörükoğlu O., Şenavcı H. V., Yılmaz M., Selam S. O., Baştürk Ö., Kılıçoğlu T., Özavcı İ., Esmer E. M., Bahar E., Yalçinkaya S.  
XXII. Ulusal Astronomi Kongresi, İzmir, Turkey, 6 - 08 September 2022, vol.4, pp.294-299
- V. **PCEB Systems Displaying Eclipse Timing Variations**  
BAŞTÜRK Ö., ESMER E. M., Sertkan E., Güler B., Akar F., YALÇINKAYA S., Kutluay A. C.  
11th international conference on Hot Subdwarf Stars and Related Objects, Armagh, England, 11 - 15 September 2023, vol.1
- VI. **Zamanlama Yöntemiyle Ötegezegen Keşfi**  
BAŞTÜRK Ö., ESMER E. M., YALÇINKAYA S., Tezcan F., ALİŞ S., AKSAKER N., Tezcan C. T., Aladağ Y., Torun Ş., Akar F., et al.  
22. Ulusal Astronomi Kongresi, İzmir, Turkey, 6 - 08 September 2022, vol.4, pp.83-89
- VII. **Transit timing variations of five transiting planets**  
Basturk Ö., ESMER E. M., Torun S., YALÇINKAYA S., El Helweh F., Karamanli E., Oncu M., Albayrak H. O., Akram F. A. M., Kahraman M. G., et al.  
Turkish Physical Society 35th International Physics Congress, TPS 2019, Konacik-Bodrum, Turkey, 4 - 08 September 2019, vol.2178

## Metrics

Publication: 24

Citation (WoS): 112

Citation (Scopus): 125

H-Index (WoS): 7

H-Index (Scopus): 7

### **Non Academic Experience**

University of Rome Tor Vergata, Stajyer